CLAIMS

What is claimed is:

1. (Currently Amended) A wearable health monitoring device comprising:

a plurality of sensors configured to monitor health indicators of a wearer of the device and to wirelessly transmit sensor data;

at least one sensor interface for receiving health indicator data from said plurality of sensors:

at least one memory for storing the health indicator data;

a processor for analyzing the health indicator data, wherein said processor is configured to dynamically regulate a substance delivery mechanism responsive to the health indicator data;

a wireless transmitter connected to said processor, said transmitter being activatable both (a) manually by the wearer and (b) automatically by the processor detecting health indicator data outside of a predetermined normal range, wherein the wireless transmitter is configured to detect, when activated, an in-range wireless receiver and, in response to detecting the receiver, uploading to a remote monitoring device via the receiver at least one indicator of the wearer's current medical condition, and wherein the wireless transmitter is further configured to receive the sensor data wirelessly transmitted by said plurality of sensors; and

a viewing screen connected to said processor, said display being activatable both (a) manually by the wearer and (b) automatically by the processor detecting health indicator data outside of a predetermined normal range, wherein the screen is configured to display visually, when activated, at least one indicator of the wearer's current medical condition.

Amdt. dated February 22, 2007

Reply to Office Action of November 22, 2006

Docket No. 7280-2-1

2. (Currently Amended) The monitoring device according to claim 1, wherein said

sensors include at least one sensor to monitor heart rate, heart murmur, heart intensity,

electro-cardio signals, lung noise, respiration rate, occlusion, adrenal level, acetycholine

acetylcholine level, temperature, and sodium levels.

3. (Previously Presented) The monitoring device according to claim 1, wherein said

transmitter comprises a wireless transceiver for effecting two-way communications with

at least one of an emergency service, a health care professional, a third party, and a

processing device.

4. (Previously Presented) The monitoring device according to claim 3, wherein the

wireless transceiver is configured to detect a plurality of different available

communication links.

5. (Currently Amended) The monitoring device according to claim 3, wherein said

viewing screen is further configured to diplay display data received by said transceiver

from a remote source, and device diagnostic information.

6. (Original) The monitoring device according to claim 1, wherein said processor is

programmed with an individualized patient profile establishing ranges of normal health

indicators, wherein said processor compares the health indicator data with the patient

profile.

7. (Original) The monitoring device according to claim 6, wherein said processor

signals said medication delivery system to regulate the delivery of at least one substance.

{WP373137;1}

Amdt. dated February 22, 2007

Reply to Office Action of November 22, 2006

Docket No. 7280-2-1

8. (Previously Presented) The monitoring device according to claim 7, wherein said

transmitter comprises a wireless transceiver through which said processor communicates

with the medication delivery system.

9. (Original) The monitoring device according to claim 8, wherein the medication

delivery system is at least one of a dermal patch, a medication port, and a medication

pump.

10. (Previously Presented) The monitoring device according to claim 1, wherein said

transmitter comprises a wireless transceiver for communicating with an authorized

computing system, wherein said processor signals said medication delivery system to

regulate delivery of a substance responsive to receiving a medication delivery signal from

the authorized computing system.

11. (Original) The monitoring device according to claim 10, wherein the medication

delivery system is at least one of a dermal patch, a medication port, and a medication

pump.

12. (Withdrawn) A patient health monitoring system comprising:

a wearable patient health monitoring device having a plurality of sensors

configured to monitor health indicators, a data storage for recording monitored health

indicators as data, a transceiver for wireless communications, a medication delivery

system, a viewing screen, and a processor configured to dynamically regulate substance

delivery to the patient, wherein said processor is responsive to indicator data, wherein

said transmitter is activatable both (a) manually by the wearer and (b) automatically by

the processor detecting health indicator data outside of a predetermined normal range and

is configured to detect, when activated, an in-range wireless receiver and, in response to

{WP373137;1}

Amdt. dated February 22, 2007

Reply to Office Action of November 22, 2006

Docket No. 7280-2-1

detecting the receiver, uploading to a remote monitoring device via the receiver at least

one indicator of the wearer's current medical condition, and wherein said viewing screen

is activatable both (a) manually by the wearer and (b) automatically by the processor

detecting health indicator data outside of a predetermined normal range, and is

configured to display visually, when activated, at least one indicator of the wearer's

current medical condition;

at least one health professional computing device communicably coupled to said

monitoring device via a communications network;

at least one third party computing device communicably coupled to said

monitoring device via a communications network.

13. (Withdrawn) The monitoring system according to claim 12, further comprising a

patient computing device communicably coupled to said monitoring device and

communicably coupled to said health professional computing device and said third party

computing device via at least one of a wired communications network and a wireless

communications network.

14. (Withdrawn) The monitoring system according to claim 12, wherein at least one

of said patient computing device and the health monitoring device is configured to play

audible messages.

15. (Withdrawn) The monitoring system according to claim 14, wherein said

processor is programmed with an individualized patient profile establishing ranges of

normal health indicators such that said processor compares detected health indicators to

said range of normal health indicators.

{WP373137;1}

Amdt. dated February 22, 2007

Reply to Office Action of November 22, 2006

Docket No. 7280-2-1

16. (Withdrawn) The monitoring system according to claim 15, wherein said health monitoring device signals at least one of said patient computing device, said health professional computing device, and said third party computing device when detected health indicators are outside of said range of normal health indicators.

- 17. (Withdrawn) The monitoring system according to claim 15, wherein the patient profile is updated based on detected health indicators.
- 18. (Withdrawn) The monitoring system according to claim 12, wherein said monitoring device contacts at least one of said health professional computing device and said third party computing device based on data from said sensors.
- 19. (Withdrawn) A method for monitoring the health indicators of a patient, comprising the steps of:

storing an individualized patient profile to establish normal ranges of health indicators;

detecting patient health indicators using at least one sensor;

comparing detected health indicators to the patient profile;

initiating a programmatic response to at least one of said detecting step and said comparing step, wherein said programmatic response is selected from the group consisting of notifying a health professional, notifying the patient, notifying a third party, and regulating the delivery of a substance to the patient;

activating a wireless transmitter (a) manually or (b) automatically by detecting at least one health indicator outside of a predetermined normal range, wherein the wireless transmitter, when activated, detects an in-range wireless receiver and, in response to detecting the receiver, uploads to a remote monitoring device via the receiver at least one indicator of the patient's current medical condition; and

Amdt. dated February 22, 2007

Reply to Office Action of November 22, 2006

Docket No. 7280-2-1

condition.

activating a viewing screen (a) manually or (b) automatically by detecting at least one health indicator outside of a predetermined normal range, wherein the screen, when activated, displays visually at least one indicator of the patient's current medical

- 20. (Withdrawn) The method according to claim 19, further comprising the step of signaling at least one of a personal computing device, a third party computing device, and health professional computing device when one or more detected health indicators are outside of the established normal range.
- 21. (Withdrawn) The method according to claim 19, further comprising the step of: storing at least one prerecorded message; and playing at least one prerecorded message.
- 22. (Withdrawn) The method according to claim 19, further comprising the step of receiving a communication from a remote computing system specifying a suggested course of treatment.
- 23. (Withdrawn) The method according to claim 22, further comprising the step of signaling a medication delivery system to regulate the delivery of at least one substance according to said suggested course of treatment.
- 24. (Withdrawn) The method according to claim 19, further comprising the step of updating the patient profile according to detected health indicators.

Amdt. dated February 22, 2007

Reply to Office Action of November 22, 2006

Docket No. 7280-2-1

25. (Withdrawn) A machine readable storage, having stored thereon a computer program having a plurality of code sections executable by a machine for causing the

machine to perform the steps of:

storing an individualized patient profile to establish normal ranges of health

indicators;

detecting patient health indicators using at least one sensor;

comparing detected health indicators to the patient profile;

initiating a programmatic response to at least one of said detecting step and said

comparing step, wherein said programmatic response is selected from the group

consisting of notifying a health professional, notifying the patient, notifying a third party,

and regulating the delivery of a substance to the patient;

activating a wireless transmitter (a) manually or (b) automatically by detecting at

least one health indicator outside of a predetermined normal range, wherein the wireless

transmitter, when activated, detects an in-range wireless receiver and, in response to

detecting the receiver, uploads to a remote monitoring device via the receiver at least one

indicator of the patient's current medical condition; and

activating a viewing screen (a) manually or (b) automatically by detecting at least

one health indicator outside of a predetermined normal range, wherein the screen, when

activated, displays visually at least one indicator of the patient's current medical

condition.

26. (Withdrawn) The machine readable storage according to claim 25, further causing

the machine to perform the step of signaling at least one of a personal computing device,

a third party computing device, and health professional computing device when the

detected health indicators are outside of the established normal range.

{WP373137;1}

Appln. No. 10/620,012 Amdt. dated February 22, 2007 Reply to Office Action of November 22, 2006 Docket No. 7280-2-1

27. (Withdrawn) The machine readable storage according to claim 25, further causing the machine to perform the steps:

storing at least one prerecorded message; and playing at least one prerecorded message.

- 28. (Withdrawn) The machine readable storage according to claim 25, further causing the machine to perform the step of receiving a communication from a remote computing system specifying a suggested course of treatment.
- 29. (Withdrawn) The machine readable storage according to claim 28, further causing the machine to perform the step of signaling a medication delivery system to regulate the delivery of at least one substance according to said suggested course of treatment.
- 30. (Withdrawn) The machine readable storage according to claim 25, further causing the machine to perform the step of updating the patient profile according to detected health indicators.
- 31. (New) The monitoring device of claim 1, wherein said plurality of sensors are configured to wirelessly transmit sensor data by at least one of radio frequencies (RF), sound waves, and infrared signals.
- 32. (New) The monitoring device of claim 1, wherein said wireless transmitter is further configured to wirelessly transmit health indicator data to a remotely located healthcare provider.

Appln. No. 10/620,012 Amdt. dated February 22, 2007 Reply to Office Action of November 22, 2006 Docket No. 7280-2-1

- 33. (New) The monitoring device of claim 32, wherein said wireless transmitter comprises a transceiver also configured to receive instructions from the remotely located healthcare provider, the received instructions being executable by the processor.
- 34. (New) The monitoring device of claim 1, wherein said wireless transmitter comprises a cellular communications unit for conveying at least one of a telephone call, an electronic page, and a text message.
- 35. (New) The monitoring device of claim 1, wherein said wireless transmitter is further configured to wirelessly transmit one of a plurality of pre-recorded messages in response to detecting a predetermined bodily condition in the wearer based upon a comparison, performed by said processor, of health indicator data to a patient profile of the wearer stored in said at least one memory, the transmitted pre-recorded audible message being transmitted to at least one of the wearer and a remotely-located healthcare provider.